# **Source Water Assessment Report**



### **Public Water Supply: JEFFERSON CO RWD 13**

# Assessment Areas Include: 860



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Reports were generated with the Automated Source Water Assessment Tool (ASWAT). Assessments were completed online using ASWAT by hundreds of state employees, public water supply staff, and technical assistant providers throughout the State of Kansas.

# **Table Of Contents**

Report Description	
Assessment Area 860	<u>1.0</u>
Executive Summary	<u>1.1</u>
Potential Sources	<u>1.2</u>
Added Sources	<u>1.3</u>
Potential Contaminants Summary	<u>1.4</u>
Potential Contaminants Listing	<u>1.5</u>
Protection Measures	<u>1.6</u>
Assessment Analysis	<u>1.7</u>
Site Comments	<u>1.8</u>
Added Site Comments	<u>1.9</u>
Analysis Question Comments	1.10

## **Report Description**

### **Detailed Explanation of Entire Report:**

The 1996 amendments to the Safe Drinking Water Act require each state to develop a Source Water Assessment Program (SWAP) and a Source Water Assessment (SWA) for each Public Water Supply (PWS) that treats and distributes raw source water. In Kansas there are 761 public water supplies that require SWAs. A SWA includes a delineation of the source water assessment area, an inventory of potential contaminant sources, and a susceptibility analysis.

A PWS can consist of one or more individual assessment areas that require different assessments. In general, an assessment area is delineated at a two-mile fixed radius for a groundwater well. A surface water intake assessment area is the upstream-drainage area (watershed), inside the state border. Additionally, an assessment area can consist of an individual well, group of wells, an individual surface water intake, or multiple surface water intakes.

After each assessment is completed a report is automatically generated using an Internet-based application called the Automated Source Water Assessment Tool (ASWAT). The individual assessment reports combine to form the entire SWA report for a PWS.

A map of each Assessment Area was also generated with ASWAT. However, for security reasons the maps are not included in this report. To obtain a copy of the map(s), please contact your local PWS.

All PWS reports will be available for viewing and downloading on KDHE's Watershed Management Section website(http://www.kdhe.state.ks.us/nps) in 2004.

### **JEFFERSON CO RWD 13 Summary:**

AA	Туре	Diversion Id
860	Ground water multiple wells	002, 003

Assessment Area: 860

Diversion Id's: 002, 003

Status: Accepted

Submit Date: 2002–12–10 12:29:43

### **Executive Summary:**

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

# **Executive Summary**

Public Water Supply: JEFFERSON CO RWD 13

Assessment Area: 860

## **Susceptibility Likelihood Scores for Assessment Area**

<b>Contaminant Category</b>	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	47	52	51	56	53	59
SLS Range	Low	Mid	Low	Mid	Mid	Mid

A – Microbiolgical

**B\*** – Nitrates

C\* – Pesticides

**B** – Inorganic Compounds

C – Synthetic Organic Compounds

**D** – Volatile Organic Compounds

## Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	<b>Moderate Susceptibility</b>
81–100	High Susceptibility

Assessment Area: 860

Diversion Id's: 002, 003

Status: Accepted

Submit Date: 2002–12–10 12:29:43

#### **Potential Sources:**

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

# **Potential Sources**

Public Water Supply: **JEFFERSON CO RWD 13** 

Assessment Area: 860

## **Unregulated Potential Site Sources**

Source No.	SIC Description	SIC ID	Zone
104221	Single–family Housing Construction	1521	С
104228	Single–family Housing Construction	1521	С
104229	Lawn and Garden Equipment Manufacturing	3524	С
104248	Aircraft Equipment Manufacturing	3728	С
104249	Aircraft Equipment Manufacturing	3728	С
104223	Signs and Advertising Display Manufacturing	3993	С
104230	Signs and Advertising Display Manufacturing	3993	С
104246	Pipeline Terminal	4789	С
104264	Farm and Garden Machinery	5083	С
104231	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
104262	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
104263	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С

### **Unregulated Potential Site Sources**

Source No.	SIC Description	SIC ID	Zone
104232	Auto Truck Repair Service	7538	С
104233	Auto Truck Repair Service	7538	С

### **Regulated Confined Animal Feeding Operations Potential Site Sources**

Did Not Contain Any Of These Potential Site Sources

### **Regulated Hazardous Waste Potential Site Sources**

Did Not Contain Any Of These Potential Site Sources

### **Regulated Leaking Storage Tank Potential Site Sources**

Source No.	Source Name	ID/Permit No.	Zone
3000363	BcrStorage	04450	С
3000659	Stop 2 Shop, (kerr Mcgee)	06783	С
3001719	Kdot, Lawrence	26640	С
3002875	Kaw Metals	81779	С

## **Regulated Identified Contaminated Potential Site Sources**

Did Not Contain Any Of These Potential Site Sources

## Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000645	Lawrence Sand Company	0634-S	С

## **Regulated Waste Water Potential Site Sources**

Source No.	Source Name	ID/Permit No.	Zone
6000378	VICTORIA VERANDA FARM BED AND BREAKFAST	C-KS31-NO05	С
6000661	LACY STEEL COMPANY,INC.	I-KS31-NO01	С

Assessment Area: 860

Diversion Id's: 002, 003

Status: Accepted

Submit Date: 2002–12–10 12:29:43

#### **Added Sources:**

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

## **Added Sources**

Public Water Supply: JEFFERSON CO RWD 13

Assessment Area: 860

### **Added Potential Site Sources**

Source No.	Source Name	SIC ID	Zone
9000606	on-site wastewater facility	10067	В
9000607	dryland cropland	115	В
9000608	buried petroleum pipeline	4600	В
9000610	Irrigation equipment, pump site, and well	10012	С
9000609	dog kennel	752	С

Assessment Area: 860

Diversion Id's: 002, 003

Status: Accepted

Submit Date: 2002–12–10 12:29:43

### **Potential Contaminants Summary:**

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

# **Potential Contaminants Summary**

Public Water Supply: JEFFERSON CO RWD 13

Assessment Area: 860

# Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
2	0	12	2	11	2

A – Microbiolgical

**B\*** – Nitrates

C\* – Pesticides

**B** – Inorganic Compounds

C – Synthetic Organic Compounds

**D** – Volatile Organic Compounds

Assessment Area: 860

Diversion Id's: 002, 003

Status: Accepted

Submit Date: 2002–12–10 12:29:43

### **Potential Contaminants Listing:**

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B\* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

**C\*** – Pesticides **D** – Volatile Organic Compounds

# **Potential Contaminants Listing**

Public Water Supply: **JEFFERSON CO RWD 13** 

Assessment Area: 860

# **Unregulated Identified Site Sources and associated Potential Contaminant Category**

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3728	Aircraft Equipment Manufacturing	inorganics, VOCs	В
"	"	"	D
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	11	D
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	В
"	"	"	D
4789	Pipeline Terminal	Inorganics, VOCs	В
"	"	"	D
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	В
"	"	11	D
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	11	B2
"	"	11	B*
"	"	"	С
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	В
"	"	"	D

# **Unregulated Identified Site Sources and associated Potential Contaminant Category.**

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
5083	Farm and Garden Machinery	inorganics	В

Assessment Area: 860

Diversion Id's: 002, 003

Status: Accepted

Submit Date: 2002–12–10 12:29:43

#### **Protection Measures:**

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

# **Protection Measures**

Public Water Supply: **JEFFERSON CO RWD 13** 

Assessment Area: 860

## **Recommended Water Quality Protection Measures**

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3728	Aircraft Equipment Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 464 and State or federal Storm water pollution prevention regulations
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
4789	Pipeline Terminal	Inorganics, VOCs	Maintain secondary containment for fuel storage and fueling areas. Maintain and inspect. Effect repairs promptly	NA
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28–48, KDHE, KDEM

# **Recommended Water Quality Protection Measures**

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA

Assessment Area: 860

Diversion Id's: 002, 003

Status: Accepted

Submit Date: 2002–12–10 12:29:43

### **Assessment Analysis:**

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

# **Assessment Analysis**

Public Water Supply: **JEFFERSON CO RWD 13** 

Assessment Area: 860

### **Ground Water Multiple Wells Analysis**

 ${\bf A}$  – Microbiolgical  ${\bf B}$  – Inorganic Compounds

B\* – Nitrates
 C – Synthetic Organic Compounds
 C\* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	<b>B</b> *	C	<b>C</b> *	D
1	Is any well under the influence of surface water?	No	0	0	0	0	0	0
2	Do all PWS wells meet KS PWS water well construction standards?	Yes	0	0	0	0	0	0
3	Is any well less than 30 feet deep?	No	0	0	0	0	0	0
4	Is gravel pack within 20 feet of any well surface?	No	0	0	0	0	0	0
5	Does a PWS own or control all the areas around the wells?	Yes	0	0	0	0	0	0
6	Does Zone B consist entirely of native grass?	No	2	2	2	2	2	2
7	Is there a contaminated well in Zone B?	No	0	0	0	0	0	0
8	Is a class V UIC well present?	No	0	0	0	0	0	0
9	Are any commercial, industrial, or urban areas present in Zone B?	No	0	0	0	0	0	0
10	Does each industrial/commercial site and urban area have a water quality protection plan in place?	Yes	0	0	0	0	0	0
11	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
12	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
13	Are any farmsteads present in Zone B?	Yes	1	1	1	1	1	1
14	Do all farmsteads have a water quality protection plan?	No	1	1	1	1	1	1
15	Is there grazing livestock in Zone B?	No	0	0	0	0	0	0
16	Have all livestock producers implemented water quality protection measures?	Yes	0	0	0	0	0	0
17	Is there livestock confinement in Zone B?	No	0	0	0	0	0	0

No.	Question	Response	A	В	<b>B</b> *	C	C*	D
18	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
19	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
20	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	No	0	0	1	0	1	0
21	Are any orchards present in Zone B?	No	0	0	0	0	0	0
22	Are orchard nutrient and pesticide management plans in use for each site?	Yes	0	0	0	0	0	0
23	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	Yes	1	1	1	0	0	0
24	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
25	Is there oil production in Zone B or C?	Yes	0	1	0	1	0	1
26	Do coarse textured soils predominate Zones A, B and C?	No	0	0	0	0	0	0
27	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
28	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
29	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
30	Are there unplugged, abandoned water wells present in Zone C?	Yes	2	1	1	1	1	1
31	Are any commercial, industrial, or urban area present in Zone C?	Yes	1	1	1	1	1	1
32	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
33	Is there livestock confinement in Zone C?	No	0	0	0	0	0	0
34	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
35	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
36	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
37	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
38	Does a perennial stream flow into Zone C?	Yes	1	1	1	1	1	1
39	Are watershed water quality protection plans in place?	No	1	1	1	1	1	1

Assessment Area: 860

Diversion Id's: 002, 003

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Submit Date: 2002–12–10 12:29:43

#### **Site Comments:**

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

## **Site Comments**

Public Water Supply: JEFFERSON CO RWD 13

Assessment Area: 860

### **Comments for Unregulated Sites**

Did Not Receive Any Comments

### **Comments for Regulated Confined Animal Feeding Operations Sites**

Did Not Receive Any Comments

### **Comments for Regulated Hazardous Waste Sites**

Did Not Receive Any Comments

### **Comments for Regulated Leaking Storage Tank Sites**

Potential Contaminant Site Name	Site No.	Site Comments	Author
BcrStorage	3000363	This site was contaminated with diesel; no groundwater contamination was detected.	Nicole Fisher
Kaw Metals		lin 2000. One domestic water well is within 25 miles	Nicole Fisher

## **Comments for Regulated Leaking Storage Tank Sites**

Potential Contaminant Site Name	Site No.	Site Comments	Author
Kdot, Lawrence	3001719		Nicole Fisher
Stop 2 Shop, (kerr Mcgee)	3000659	$\mathcal{E}$	Nicole Fisher

### **Comments for Regulated Identified Contaminated Sites**

Did Not Receive Any Comments

### **Comments for Regulated Solid Waste Sites**

Potential Contaminant Site Name	Site No.	Site Comments	Author
Lawrence Sand Company	5000645	[TP]	Nicole Fisher

## **Comments for Regulated Waste Water Sites**

Potential Contaminant Site Name	Site No.	Site Comments	Author
LACY STEEL COMPANY,INC.	6000661	This tacility uses nondischarging lagoons	Nicole Fisher
VICTORIA VERANDA FARM BED AND BREAKFAST	6000378	l'I'his facility uses nondischarging lagoons	Nicole Fisher

Assessment Area: 860

Diversion Id's: 002, 003

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Submit Date: 2002–12–10 12:29:43

### **Added Site Comments:**

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

# **Added Site Comments**

Public Water Supply: **JEFFERSON CO RWD 13** 

Assessment Area: 860

### **Comments for Added Contaminant Sites**

Added Contaminant Site Name	Site No.	Site Comments	Author
Irrigation equipment, pump site, and well	9000610	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
buried petroleum pipeline	9000608	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
dog kennel	9000609	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
dryland cropland	9000607	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
on-site wastewater facility	9000606	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher

Assessment Area: 860

Diversion Id's: 002, 003

Status: Accepted

Submit Date: 2002–12–10 12:29:43

### **Analysis Question Comments:**

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

# **Analysis Question Comments**

Public Water Supply: JEFFERSON CO RWD 13

Assessment Area: 860

## **Comments for Analysis Questions**

Analysis Question	<b>Question Comments</b>	Author
N/A or Unknown	According to the Wellhead Protection Plan, there is a buried petroleum pipeline within 100 ft of well #2. Sensors have been incorporated into the pipeline to detect and prevent spills.	Nicole Fisher
Is an irrigation well located in Zone B or C?	According to the Wellhead Protection Plan, the farmers also use chemigation systems.	Nicole Fisher
Are cropland nutrient management plans in place?	The farmer around the wells has made a verbal agreement not use fertilizers or pesticides within a 200 ft radius of the wells.	Nicole Fisher